In the Claims

1	1. (Amended) A method of communicating over a plurality of different target media,
2	comprising:
3	providing, for each of the plurality of different target bussesmedia, a plurality of
4	communication element types, each communication element type being a user-definable
5	data structure structured to that pertains to represent a particular protocol layer a of the
6	respective target communication medium,
7	wherein at least one of the plurality of communication element types is included
8	by reference in greater than one other of the plurality of communication element types.
1	2. (Original) A method as recited in claim 1, wherein instances of each communication
2	element type can be created for exchanging data on the respective target medium.
1	3. (Original) A method as recited in claim 1, further comprising defining the plurality of
2	communication element types responsive to exchanges allowed by the protocol of the
3	respective target medium.
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1	4. (Original) A method as recited in claim 1, further comprising:
2	creating an instance of at least one of the plurality of communication element
3	types; and
4	processing the instance of the communication element type for exchanging
5	information on the respective target medium.
1	5. (Original) A method as recited in claim 1, wherein the communication element type
2	defines a structure for transmitting data over the target medium.
1	6. (Original) A method as recited in claim 1, wherein the communication element type
2	defines a structure for receiving data over the target medium.

- 7. (Original) A method as recited in claim 1, wherein at least one communication
- 2 element type is a message type that includes a portion for holding message data
- 3 associated with instances of the respective message type.
- 8. (Original) A method as recited in claim 7, wherein the message data has a fixed
- 2 length.
- 9. (Original) A method as recited in claim 7, wherein the message data has a variable
- 2 length.
- 1 10. (Original) A method as recited in claim 1, wherein the communication element type
- 2 has a fixed portion that is the same for all instances of the communication element type.
- 1 11. (Original) A method as recited in claim 1, wherein any communication element type
- 2 can be defined in terms of other communication element types.
- 1 12. (Original) A method as recited in claim 1, wherein the plurality of communication
- 2 element types includes at least one message type, and each instance of the message type
- 3 includes a portion for prescribing timing.
- 1 13. (Original) A method as recited in claim 12 wherein the timing includes a setting for
- 2 specifying a pre-message gap.
- 1 14. (Original) A method as recited in claim 12, wherein the timing includes a setting for
- 2 specifying a pre-word gap.
- 1 15. (Original) A method as recited in claim 12, wherein the timing includes a setting for
- 2 specifying a begin message timeout.

1	16. (Original) A method as recited in claim 12, wherein the timing includes a setting for
2	specifying a trailing gap.
1	17. (Amended) A method of structuring communications over a communication
1 2	17. (Amended) A method of structuring communications over a communication medium having a known protocol, comprising:
3	providing at least one user-definable communication element type for at least one
4	layer of a generalized communication model, each communication element type having a
5	user-definable structure that is adaptable for representing pertains to a corresponding
6	layer of the protocol;
7	creating an instance of the at least one user-definable communication element
8	type; and
9	varying at least one characteristic of the instance to determine a susceptibility of
10	equipment operatively connected to the target medium to the varied characteristic.
-	18. (Amended) A method as recited in claim 17, wherein the at least one
1	18. (Amended) A method as recited in claim 17, wherein the at least one characteristic includes a timing characteristic instances of the communication
2	element types can be created for representing transactions over the medium.
3	element types can be created for representing transactions over the medium.
1	19. (Amended) A method of creating an interface with a communication medium
2	having a protocol, comprising:
3	creating at least one a plurality of user-definable communication element types for
4	representing different at least one-layers of a generalized communication model, wherein
5	at least one of the plurality of communication element types is included by reference in
6	greater than one other of the plurality of communication element types;
7	structuring each at least one user-definable communication element type to
8	substantially represent the protocol of the medium at the respective layer of the
9	generalized communication model; and
10	saving the at least one user-definable communication element type in a computer
11	readable format that can be accessed for communicating over the medium; and
12	instantiating one or more of the plurality of communication element types to
13	create specific instances of communications over the communication medium.

- 1 20. (New) A method as recited in claim 1,
- wherein the plurality of user-definable communication element types include
- 3 message types, word types, and field types,
- wherein at least one message type includes a reference to at least one word type,
- 5 and
- 6 wherein at least one word type includes a reference to at least one field type.